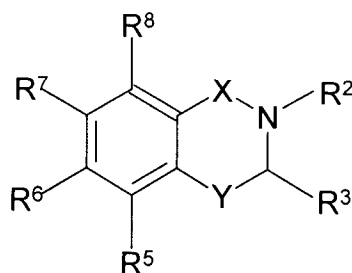


**AMENDED CLAIM SET:**

1. (currently amended) A compound represented by the general formula (I):



wherein

X represents SO<sub>2</sub> or C=O or CH<sub>2</sub>; and

Y represents CH(R<sup>4</sup>), N(R<sup>4</sup>) or N(R<sup>4</sup>)-CH<sub>2</sub>, or O; and

R<sup>2</sup> represents hydrogen, alkyl, cycloalkyl, aryl, benzyl, or -CO-R<sup>9</sup>,

wherein R<sup>9</sup> represents alkyl, cycloalkyl, benzyl, or aryl; or R<sup>2</sup> together with R<sup>3</sup>, and together with the atoms to which they are attached, forms a 4- to 7-membered ring, which ring is optionally substituted one or more times with substituents selected from halogen, alkyl, alkenyl, alkynyl, hydroxy, alkoxy, amino, and thio, and optionally containing one or more heteroatoms and optionally containing carbonyl groups; and

R<sup>3</sup> represents hydrogen, cycloalkyl, alkyl, cycloalkylalkyl, haloalkyl, hydroxyalkyl, cyanoalkyl, alkoxyalkyl, alkoxy, haloalkoxy, acyl, alkyl-NR<sup>13</sup>R<sup>14</sup>, or -alkyl-S-R<sup>13</sup>, wherein R<sup>13</sup> and R<sup>14</sup> independently represents hydrogen, alkyl, or cycloalkyl; or R<sup>13</sup> and R<sup>14</sup> together with the nitrogen to which they are attached forms a 3- to 8-membered heterocyclic ring structure; or R<sup>3</sup> represents a carbocyclic 7- to 12- membered ring, which carbocyclic ring is optionally substituted with halogen, alkyl, hydroxy or alkoxy; or R<sup>3</sup> represents a heterocyclic 3- to 8-membered ring, which heterocyclic ring is optionally substituted with halogen, alkyl, hydroxy or alkoxy, and optionally the heterocyclic ring is fused to an aryl; or R<sup>3</sup> represents benzyl, which benzyl is optionally substituted one or more times with substituents selected from the group consisting of halogen, cycloalkyl, alkyl, hydroxy, alkoxy, amino, thio, haloalkyl, hydroxyalkyl, alkoxyalkyl, alkylthio, and alkylamino; or R<sup>3</sup> represents aryl, which aryl is

optionally substituted one or more times with substituents selected from the group consisting of halogen, cycloalkyl, alkyl, hydroxy, alkoxy, amino, thio, haloalkyl, hydroxyalkyl, alkoxyalkyl, alkylthio, and alkylamino; or

$R^3$  together with  $R^2$  or  $R^4$ , and together with the atoms to which they are attached, forms a 4- to 7- membered ring, which ring is optionally substituted one or more times with substituents selected from halogen, alkyl, alkenyl, alkynyl, hydroxy, alkoxy, amino, and thio, and optionally containing one or more heteroatoms and optionally containing carbonyl groups; and

$R^4$  represents hydrogen, alkyl, cycloalkyl, cycloalkylalkyl, aryl,  $-\text{CO}-R^{10}$ , or  $-\text{CO}_2R^{10}$ , wherein  $R^{10}$  represents hydrogen, cycloalkyl, alkyl, aryl or benzyl; or

$R^4$  together with  $R^3$ , and together with the atoms to which they are attached, forms a 4- to 7- membered ring, which ring is optionally substituted one or more times with substituents selected from halogen, alkyl, alkenyl, alkynyl, hydroxy, alkoxy, amino, and thio, and optionally containing one or more heteroatoms and optionally containing carbonyl groups; and

$R^5$  represents hydrogen, halogen, alkyl, alkenyl, alkynyl, or aryl; or  $R^5$  represents  $-\text{SO}_2-\text{NR}^{11}\text{R}^{12}$ , wherein  $R^{11}$  and  $R^{12}$  independently represents hydrogen, alkyl, cycloalkyl, benzyl, aryl; or  $R^{11}$  and  $R^{12}$  together with the nitrogen to which they are attached form a heterocyclic 3- to 8- membered ring structure, which ring structure is optionally substituted with halogen, alkyl, hydroxy, alkoxy, amino, thio, aryl, benzyl,  $-\text{SO}_2$ -alkyl,  $-\text{SO}_2$ -aryl, or  $-\text{SO}_2$ -benzyl, and optionally the heterocyclic ring is fused to an aryl; and

$R^6$  represents hydrogen, halogen, alkyl, cyano, cyanoalkyl, nitro, alkoxy, haloalkoxy, haloalkyl, hydroxyalkyl, cycloalkyl, or cyclohaloalkyl; or  $R^6$  represents  $-\text{NR}^{15}\text{R}^{16}$ ,  $-\text{NHSO}_2\text{R}^{15}$ , or  $-\text{NHSO}_2$ -aryl, wherein the aryl is optionally substituted one or more times with substituents selected from halogen, alkyl, cycloalkyl, hydroxy, alkoxy, amino, thio,  $-\text{CF}_3$ ,  $-\text{OCF}_3$ ,  $-\text{NO}_2$ , and aryl; wherein  $R^{15}$  and  $R^{16}$  independently represents hydrogen, alkyl, cycloalkyl, benzyl, or aryl; or  $R^{15}$  and  $R^{16}$  together with the nitrogen to which they are attached form a heterocyclic 3- to 8- membered ring structure, which ring structure is optionally substituted with halogen, alkyl, alkenyl, alkynyl, hydroxy, alkoxy, amino, thio, aryl, benzyl,  $-\text{SO}_2$ -alkyl,  $-\text{SO}_2$ -aryl, or  $-\text{SO}_2$ -benzyl, and optionally the heterocyclic ring is fused to an aryl; or  $R^6$  represents aryl, which aryl is optionally substituted one or more times with substituents selected from the group consisting of alkyl, cycloalkyl, alkoxy, haloalkyl, haloalkoxy, hydroxyalkyl, alkoxyalkyl, and

amino; or  $R^6$  represents HET, which HET is optionally substituted one or more times with substituents selected from the group consisting of alkyl, cycloalkyl, alkoxy, halogen, haloalkyl, and haloalkoxy; or  $R^6$  represents  $-(alkyl)_m-S-R^{15}$ ,  $-(alkyl)_m-SO-R^{15}$ ,  $-(alkyl)_m-SO_2-R^{15}$ ,  $-(alkyl)_m-SO_2OR^{15}$ ,  $-(alkyl)_m-SO_2-NR^{15}R^{16}$ ,  $-(alkyl)_m-NHCOR^{15}$ ,  $-(alkyl)_m-CONR^{15}R^{16}$ ,  $-(alkyl)_m-CR'=NOR''$ ,  $-(alkyl)_m-CO-R^{15}$ ,  $-(alkyl)_m-CO_2-R^{15}$ , wherein  $m$  is 0 or 1; and  $R'$  and  $R''$  independently represents hydrogen, alkyl, cycloalkyl, alkenyl, alkynyl, aryl, or benzyl; and  $R^{15}$  and  $R^{16}$  independently represents hydrogen, alkyl, cycloalkyl, benzyl, or aryl; or  $R^{15}$  and  $R^{16}$  together with the nitrogen to which they are attached form a heterocyclic 3- to 8-membered ring structure, which ring structure is optionally substituted with halogen, alkyl, alkenyl, alkynyl, hydroxy, alkoxy, amino, thio, aryl, benzyl,  $-SO_2$ -alkyl,  $-SO_2$ -aryl, or  $-SO_2$ -benzyl, and optionally the heterocyclic ring is fused to an aryl; and

$R^7$  represents hydrogen, halogen, alkyl, cyano, cyanoalkyl, nitro, nitroalkyl, alkoxy, haloalkoxy, haloalkyl, hydroxyalkyl, cycloalkyl, or cyclohaloalkyl; or  $R^7$  represents  $-NR^{17}R^{18}$ ,  $-NHSO_2-R^{17}$ , or  $-NHSO_2$ -aryl, wherein the aryl is optionally substituted one or more times with substituents selected from halogen, alkyl, cycloalkyl, hydroxy, alkoxy, amino, thio,  $-CF_3$ ,  $-OCF_3$ ,  $-NO_2$ , aryl; or  $R^7$  represents  $-(alkyl)_m-S-R^{17}$ ,  $-(alkyl)_m-SO-R^{17}$ ,  $-(alkyl)_m-SO_2-R^{17}$ ,  $-(alkyl)_m-SO_2OR^{17}$ ,  $-(alkyl)_m-SO_2-NR^{17}R^{18}$ ,  $-(alkyl)_m-NHCOR^{17}$ ,  $-(alkyl)_m-CONR^{17}R^{18}$ ,  $-(alkyl)_m-CR'=NOR''$ ,  $-(alkyl)_m-CO-R^{17}$ , or  $-(alkyl)_mCO_2-R^{17}$ , wherein  $m$  is 0 or 1; and  $R'$  and  $R''$  independently represents hydrogen, alkyl, cycloalkyl, alkenyl, alkynyl, aryl, benzyl; and  $R^{17}$  and  $R^{18}$  independently represents hydrogen, alkyl, cycloalkyl, benzyl, or aryl; or  $R^{17}$  and  $R^{18}$  together with the nitrogen to which they are attached form a heterocyclic 3- to 8-membered ring structure, which ring structure is optionally substituted with halogen, alkyl, alkenyl, alkynyl, hydroxy, alkoxy, amino, thio, aryl, benzyl,  $-SO_2$ -alkyl,  $-SO_2$ -aryl, or  $-SO_2$ -benzyl, and optionally the heterocyclic ring is fused to an aryl; or  $R^7$  represents HET, which HET is optionally substituted one or more times with substituents selected from halogen, alkyl, alkenyl, alkynyl, hydroxy, alkoxy, amino, thio, aryl,  $-S$ -alkyl,  $-S$ -aryl,  $-SO$ -alkyl,  $-SO$ -aryl,  $-SO_2$ -alkyl,  $-SO_2$ -aryl, or  $-SO_2NR^{17}R^{18}$ ; or  $R^7$  represents aryl, which aryl is optionally substituted one or more times with substituents selected from the group consisting of alkyl, alkenyl, alkynyl, hydroxy, alkoxy, hydroxyalkyl, halogen, haloalkyl, amino,  $-NHCO$ -alkyl, nitro,  $-OCF_3$ , or  $-SO_2-NR^{17}R^{18}$ ,

wherein  $R^{17}$  and  $R^{18}$  independently represents hydrogen, alkyl, cycloalkyl, benzyl, or aryl; or  $R^{17}$  and  $R^{18}$  together with the nitrogen to which they are attached form a heterocyclic 3- to 8-membered ring structure, which ring structure is optionally substituted with halogen, alkyl, alkenyl, alkynyl, hydroxy, alkoxy, amino, thio, aryl, benzyl,  $-SO_2$ -alkyl,  $-SO_2$ -aryl, or  $-SO_2$ -benzyl, and optionally the heterocyclic ring is fused to an aryl; or

$R^7$  together with  $R^6$ , or together with  $R^8$ , forms a 5- to 7-membered ring having the one of the following structures  $-O-(CH_2)_n-O-$ , wherein  $n$  is 1, 2 or 3;  $-SO_2-NR-(CH_2)_n-$ , wherein  $R$  is hydrogen, alkyl, cycloalkyl, benzyl or aryl, and  $n$  is 1 or 2;  $-SO-NR-(CH_2)_n-$ , wherein  $R$  is hydrogen, alkyl, cycloalkyl, benzyl or aryl, and  $n$  is 1 or 2;  $-SO_2-(CH_2)_n-$ , wherein  $n$  is 2 or 3;  $-SO-(CH_2)_n-$ , wherein  $n$  is 2 or 3;  $-CO-CH=CH-NH-$ ;  $-CO-CH=CH-O-$ ;  $-CO-(CH_2)_n-NH-$ , wherein  $n$  is 1 or 2;  $-CO-NH-(CH_2)_n$ , wherein  $n$  is 1 or 2;  $-CO-(CH_2)_2-O-$ ; or  $-O-(CH_2)_n-O-$ , wherein  $n$  is 1, 2 or 3; and

$R^8$  represents hydrogen, alkyl, alkoxy, hydroxyalkyl, halogen, haloalkyl, CN, cyanoalkyl, nitro, or nitroalkyl; or  $R^8$  represents aryl, which aryl is optionally substituted one or more times with substituents selected from the group consisting of halogen,  $-CF_3$ ,  $-OCF_3$ ,  $-NO_2$ , alkyl, cycloalkyl, and alkoxy; or  $R^8$  represents HET, which HET is optionally substituted one or more times with substituents selected from the group consisting of halogen,  $-CF_3$ ,  $-OCF_3$ ,  $-NO_2$ , alkyl, cycloalkyl, and alkoxy; or  $R^8$  represents  $-(alkyl)_m-S-R^{19}$ ,  $-(alkyl)_m-SO-R^{19}$ ,  $-(alkyl)_m-SO_2-R^{19}$ ,  $-(alkyl)_m-SO_2OR^{19}$ ,  $-(alkyl)_m-SO_2-NR^{19}R^{20}$ ,  $-(alkyl)_m-NHCOR^{19}$ ,  $-(alkyl)_m-CONR^{19}R^{20}$ ,  $-(alkyl)_m-CR'=NOR''$ ,  $-(alkyl)_m-CO-R^{19}$ , or  $-(alkyl)_m-CO_2-R^{19}$ , wherein  $m$  is 0 or 1; and  $R'$  and  $R''$  independently represents hydrogen, alkyl, cycloalkyl, alkenyl, alkynyl, aryl, or benzyl; and  $R^{19}$  and  $R^{20}$  independently represents hydrogen, alkyl, cycloalkyl, benzyl, or aryl; or  $R^{19}$  and  $R^{20}$  together with the nitrogen to which they are attached form a heterocyclic 3- to 8-membered ring structure, which ring structure is optionally substituted with halogen, alkyl, alkenyl, alkynyl, hydroxy, alkoxy, amino, thio, aryl, benzyl,  $-SO_2$ -alkyl,  $-SO_2$ -aryl, or  $-SO_2$ -benzyl, and optionally the heterocyclic ring is fused to an aryl; or a compound represented by the general formula (I)

wherein  $X$  represents  $SO_2$ ; and  $Y$  represents  $CH(R^4)$ ,  $N(R^4)$ ,  $N(R^4)-CH_2$  or  $O$ ; and  $R^2$  represents hydrogen; and  $R^3$  represents hydrogen, cycloalkyl, alkyl, cycloalkylalkyl, haloalkyl, hydroxyalkyl, cyanoalkyl, alkoxyalkyl, alkoxy, haloalkoxy,  $-alkyl-NR^{13}R^{14}$ , or  $-alkyl-S-R^{13}$ , wherein  $R^{13}$  and  $R^{14}$  independently represents hydrogen, alkyl, or

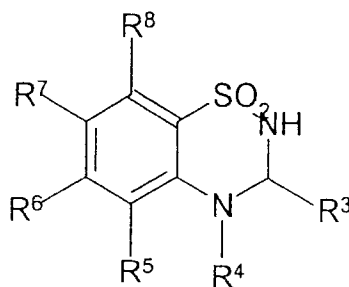
cycloalkyl; or  $R^{13}$  and  $R^{14}$  together with the nitrogen to which they are attached form a 3- to 8-membered heterocyclic ring structure; or  $R^3$  represents a carbocyclic 7- to 12-membered ring, which carbocyclic ring is optionally substituted with halogen, alkyl, hydroxy or alkoxy; or  $R^3$  represents a heterocyclic 3- to 8-membered ring, which heterocyclic ring is optionally substituted with halogen, alkyl, hydroxy or alkoxy, and optionally the heterocyclic ring is fused to an aryl; or  $R^3$  represents benzyl, which benzyl is optionally substituted one or more times with substituents selected from the group consisting of halogen, cycloalkyl, alkyl, hydroxy, alkoxy, amino, thio, haloalkyl, hydroxyalkyl, alkoxyalkyl, alkylthio, and alkylamino; or  $R^3$  together with  $R^4$ , and together with the atoms to which they are attached, forms a 4- to 7- membered ring, which ring is optionally substituted one or more times with substituents selected from halogen, alkyl, alkenyl, alkynyl, hydroxy, alkoxy, amino and thio, and optionally containing one or more heteroatoms and optionally containing carbonyl groups; and  $R^4$  represents hydrogen, alkyl, cycloalkyl, cycloalkylalkyl, aryl,  $-\text{CO}-R^{10}$ , or  $-\text{CO}_2R^{10}$ , wherein  $R^{10}$  represents hydrogen, cycloalkyl, alkyl, aryl or benzyl; or  $R^4$  together with  $R^3$ , and together with the atoms to which they are attached, forms a 4- to 7- membered ring, which ring is optionally substituted one or more times with substituents selected from halogen, alkyl, alkenyl, alkynyl, hydroxy, alkoxy, amino and thio, and which ring is optionally containing one or more heteroatoms and optionally containing carbonyl groups; and  $R^5$  represents hydrogen, halogen, alkyl, alkenyl, alkynyl, aryl, or  $-\text{SO}_2-\text{NR}^{11}\text{R}^{12}$ , wherein  $R^{11}$  and  $R^{12}$  independently represents hydrogen, alkyl, cycloalkyl, benzyl, or aryl; or  $R^{11}$  and  $R^{12}$  together with the nitrogen to which they are attached form a heterocyclic 3- to 8-membered ring structure, which ring structure is optionally substituted with halogen, alkyl, hydroxy, alkoxy, amino, thio, aryl, benzyl,  $-\text{SO}_2$ -alkyl,  $-\text{SO}_2$ -aryl, or  $-\text{SO}_2$ -benzyl, and optionally the heterocyclic ring is fused to an aryl; and  $R^6$  represents hydrogen, halogen, alkyl, cyano, cyanoalkyl, nitro, alkoxy, haloalkoxy, hydroxyalkyl, cycloalkyl, or cyclohaloalkyl, or  $R^6$  represents  $-\text{NR}^{15}\text{R}^{16}$ ,  $-\text{NHSO}_2-\text{R}^{15}$ , or  $-\text{NHSO}_2$ -aryl, wherein the aryl is optionally substituted one or more times with substituents selected from halogen, alkyl, cycloalkyl, hydroxy, alkoxy, amino, thio,  $-\text{CF}_3$ ,  $-\text{OCF}_3$ ,  $-\text{NO}_2$ , and aryl; wherein  $R^{15}$  and  $R^{16}$  independently represents hydrogen, alkyl,

cycloalkyl, benzyl, or aryl; or  $R^{15}$  and  $R^{16}$  together with the nitrogen to which they are attached form a heterocyclic 3- to 8-membered ring structure, which ring structure is optionally substituted with halogen, alkyl, alkenyl, alkynyl, hydroxy, alkoxy, amino, thio, aryl, benzyl,  $-\text{SO}_2\text{-alkyl}$ ,  $-\text{SO}_2\text{-aryl}$ , or  $-\text{SO}_2\text{-benzyl}$ , and optionally the heterocyclic ring is fused to an aryl; or  $R^6$  represents aryl, optionally substituted one or more times with substituents selected from the group consisting of alkyl, cycloalkyl, alkoxy, haloalkyl, haloalkoxy, hydroxyalkyl, alkoxyalkyl and amino; or  $R^6$  represents HET, optionally substituted one or more times with substituents selected from the group consisting of alkyl, cycloalkyl, alkoxy, halogen, haloalkyl, and haloalkoxy; or  $R^6$  represents  $-(\text{alkyl})_m\text{-S-R}^{15}$ ,  $-(\text{alkyl})_m\text{-SO-R}^{15}$ ,  $-(\text{alkyl})_m\text{-SO}_2\text{-R}^{15}$ ,  $-(\text{alkyl})_m\text{-SO}_2\text{OR}^{15}$ ,  $-(\text{alkyl})_m\text{-SO}_2\text{-NR}^{15}\text{R}^{16}$ ,  $-(\text{alkyl})_m\text{-NHCOR}^{15}$ ,  $-(\text{alkyl})_m\text{-CONR}^{15}\text{R}^{16}$ ,  $-(\text{alkyl})_m\text{-CR}'=\text{NOR}''$ ,  $-(\text{alkyl})_m\text{-CO-R}^{15}$ ; or  $-(\text{alkyl})_m\text{-CO}_2\text{-R}^{15}$ , wherein  $m$  is 0 or 1; and  $R'$  and  $R''$  independently represents hydrogen, alkyl, cycloalkyl, alkenyl, alkynyl, aryl, or benzyl; and  $R^{15}$  and  $R^{16}$  independently represents hydrogen, alkyl, cycloalkyl, benzyl, or aryl; or  $R^{15}$  and  $R^{16}$  together with the nitrogen to which they are attached form a heterocyclic 3- to 8-membered ring structure, which ring structure is optionally substituted with halogen, alkyl, alkenyl, alkynyl, hydroxy, alkoxy, amino, thio, aryl, benzyl,  $-\text{SO}_2\text{-alkyl}$ ,  $-\text{SO}_2\text{-aryl}$ , or  $-\text{SO}_2\text{-benzyl}$ , and optionally the heterocyclic ring is fused to an aryl; and  $R^7$  represents halogen, alkyl, cyano, cyanoalkyl, nitroalkyl, alkoxy, haloalkoxy, haloalkyl, hydroxyalkyl, cycloalkyl, or cyclohaloalkyl, or  $R^7$  represents  $-\text{NR}^{17}\text{R}^{18}$ ,  $-\text{NH}\text{SO}_2\text{-R}^{17}$ , or  $-\text{NH}\text{SO}_2\text{-aryl}$ , wherein the aryl is optionally substituted one or more times with substituents selected from halogen, alkyl, cycloalkyl, hydroxy, alkoxy, amino, thio,  $-\text{CF}_3$ ,  $-\text{OCF}_3$ ,  $-\text{NO}_2$ , and aryl; or  $R^7$  represents  $-(\text{alkyl})_m\text{-S-R}^{17}$ ,  $-(\text{alkyl})_m\text{-SO-R}^{17}$ ,  $-(\text{alkyl})_m\text{-SO}_2\text{-R}^{17}$ ,  $-(\text{alkyl})_m\text{-SO}_2\text{OR}^{17}$ ,  $-(\text{alkyl})_m\text{-NHCOR}^{17}$ ,  $-(\text{alkyl})_m\text{-CONR}^{17}\text{R}^{18}$ ,  $-(\text{alkyl})_m\text{-CR}'=\text{NOR}''$ ,  $-(\text{alkyl})_m\text{-CO-R}^{17}$ , or  $-(\text{alkyl})_m\text{-CO}_2\text{-R}^{17}$ , wherein  $m$  is 0 or 1; and  $R'$  and  $R''$  independently represents hydrogen, alkyl, cycloalkyl, alkenyl, alkynyl, aryl, or benzyl; and  $R^{17}$  and  $R^{18}$  independently represents hydrogen, alkyl, cycloalkyl, benzyl, or aryl, or  $R^{17}$  and  $R^{18}$  together with the nitrogen to which they are attached forms a heterocyclic 3- to 8-membered ring structure, which ring structure is optionally substituted with halogen, alkyl, alkenyl, alkynyl, hydroxy, alkoxy, amino, thio, aryl, benzyl,  $-\text{SO}_2\text{-alkyl}$ ,  $-\text{SO}_2\text{-aryl}$ ,

or -SO<sub>2</sub>-benzyl, and optionally the heterocyclic ring is fused to an aryl; or R<sup>7</sup> represents -(alkyl)<sub>m</sub>-SO<sub>2</sub>-NR<sup>17</sup>R<sup>18</sup>, wherein m is 0 or 1; and R<sup>17</sup> and R<sup>18</sup> independently of each another represents alkyl, cycloalkyl, benzyl, or aryl; or R<sup>17</sup> and R<sup>18</sup> together with the nitrogen to which they are attached form a heterocyclic 3- to 8-membered ring structure, which ring structure is optionally substituted with halogen, alkyl, alkenyl, alkynyl, hydroxy, alkoxy, amino, thio, aryl, benzyl, -SO<sub>2</sub>-alkyl, -SO<sub>2</sub>-aryl, or -SO<sub>2</sub>-benzyl, and optionally the heterocyclic ring is fused to an aryl; or R<sup>7</sup> represents HET, optionally substituted one or more times with substituents selected from halogen, alkyl, alkenyl, alkynyl, hydroxy, alkoxy, amino, thio, aryl, -S-alkyl, -S-aryl, -SO-alkyl, -SO-aryl, -SO<sub>2</sub>-alkyl, -SO<sub>2</sub>-aryl, and -SO<sub>2</sub>NR<sup>17</sup>R<sup>18</sup>; or R<sup>7</sup> represents aryl, optionally substituted one or more times with substituents selected from the group consisting of alkyl, alkenyl, alkynyl, hydroxy, alkoxy, hydroxyalkyl, halogen, haloalkyl, amino, -NHCO-alkyl, nitro, -OCF<sub>3</sub>, and -SO<sub>2</sub>-NR<sup>17</sup>R<sup>18</sup>, wherein R<sup>17</sup> and R<sup>18</sup> independently represents hydrogen, alkyl, cycloalkyl, benzyl, or aryl, or R<sup>17</sup> and R<sup>18</sup> together with the nitrogen to which they are attached form a heterocyclic 3- to 8-membered ring structure, which ring structure is optionally substituted with halogen, alkyl, alkenyl, alkynyl, hydroxy, alkoxy, amino, thio, aryl, benzyl, -SO<sub>2</sub>-alkyl, -SO<sub>2</sub>-aryl, or -SO<sub>2</sub>-benzyl, and optionally the heterocyclic ring is fused to an aryl; or R<sup>7</sup> together with R<sup>6</sup>, or together with R<sup>8</sup>, forms a 5- to 7-membered ring having the one of the following structures -O-(CH<sub>2</sub>)<sub>n</sub>-O-, wherein n is 1, 2 or 3; -SO<sub>2</sub>-NR-(CH<sub>2</sub>)<sub>n</sub>-, wherein R is hydrogen, alkyl, cycloalkyl, benzyl or aryl, and n is 1 or 2; -SO-NR-(CH<sub>2</sub>)<sub>n</sub>-, wherein R is hydrogen, alkyl, cycloalkyl, benzyl or aryl, and n is 1 or 2; -SO<sub>2</sub>-(CH<sub>2</sub>)<sub>n</sub>-, wherein n is 2 or 3; -SO-(CH<sub>2</sub>)<sub>n</sub>-, wherein n is 2 or 3; -CO-CH=CH-NH-; -CO-CH=CH-O-; -CO-(CH<sub>2</sub>)<sub>n</sub>-NH-, wherein n is 1 or 2; -CO-NH-(CH<sub>2</sub>)<sub>n</sub>-, wherein n is 1 or 2; -CO-(CH<sub>2</sub>)<sub>2</sub>-O-; or -O-(CH<sub>2</sub>)<sub>n</sub>-O-, wherein n is 1, 2 or 3; and R<sup>8</sup> represents hydrogen, alkyl, alkoxy, hydroxyalkyl, halogen, haloalkyl, CN, cyanoalkyl, nitro, or nitroalkyl; or R<sup>8</sup> represents aryl, optionally substituted one or more times with substituents selected from the group consisting of halogen, -CF<sub>3</sub>, -OCF<sub>3</sub>, -NO<sub>2</sub>, alkyl, cycloalkyl, and alkoxy; or R<sup>8</sup> represents HET, optionally substituted one or more times with substituents selected from the group consisting of halogen, -CF<sub>3</sub>, -OCF<sub>3</sub>, -NO<sub>2</sub>, alkyl, cycloalkyl, and alkoxy; or R<sup>8</sup> represents

-(alkyl)<sub>m</sub>-S-R<sup>19</sup>, -(alkyl)<sub>m</sub>-SO-R<sup>19</sup>, -(alkyl)<sub>m</sub>-SO<sub>2</sub>-R<sup>19</sup>, -(alkyl)<sub>m</sub>-SO<sub>2</sub>OR<sup>19</sup>, -(alkyl)<sub>m</sub>-SO<sub>2</sub>-NR<sup>19</sup>R<sup>20</sup>, -(alkyl)<sub>m</sub>NHCOR<sup>19</sup>, -(alkyl)<sub>m</sub>CONR<sup>19</sup>R<sup>20</sup>, -(alkyl)<sub>m</sub>-CR'=NOR'', -(alkyl)<sub>m</sub>-CO-R<sup>19</sup>, or -(alkyl)<sub>m</sub>-CO<sub>2</sub>-R<sup>19</sup>, wherein m is 0 or 1; and R' and R'' independently represents hydrogen, alkyl, cycloalkyl, alkenyl, alkynyl, aryl, or benzyl; and R<sup>19</sup> and R<sup>20</sup> independently represents hydrogen, alkyl, cycloalkyl, benzyl, or aryl, or R<sup>19</sup> and R<sup>20</sup> together with the nitrogen to which they are attached form a heterocyclic 3- to 8-membered ring structure, which ring structure is optionally substituted with halogen, alkyl, alkenyl, alkynyl, hydroxy, alkoxy, amino, thio, aryl, benzyl, -SO<sub>2</sub>-alkyl, -SO<sub>2</sub>-aryl, or -SO<sub>2</sub>-benzyl, and optionally the heterocyclic ring is fused to an aryl; provided however, if X represents SO<sub>2</sub>, and Y represents NR<sup>4</sup>, and if one of R<sup>5</sup>, R<sup>6</sup>, R<sup>7</sup> or R<sup>8</sup> is halogen or alkyl or alkoxy, then one or more of the remainder of R<sup>5</sup>, R<sup>6</sup>, R<sup>7</sup> or R<sup>8</sup> is/are not also halogen or alkyl, and then one or more of the remainder of R<sup>5</sup>, R<sup>6</sup>, R<sup>7</sup> or R<sup>8</sup> is/are not hydrogen.

2. (currently amended) The compound of according to claim 1, being a 1,2,4-benzothiadiazine derivative having the general formula (II)



wherein

R<sup>3</sup> represents hydrogen, cycloalkyl, cycloalkylalkyl, alkyl, haloalkyl, alkoxy, a carbocyclic 7- to 10- membered ring, a heterocyclic 5- to 6 membered ring, or benzyl; or

R<sup>3</sup> together with R<sup>4</sup> forms a 5- to 6- membered ring; and R<sup>4</sup> represents hydrogen, or alkyl, or R<sup>4</sup> together with R<sup>3</sup>, and together with the atoms to which they are attached, forms a 5- to 6-membered ring, which ring is optionally substituted one or more times with substituents selected from halogen, alkyl, alkenyl, alkynyl, hydroxy, alkoxy, amino, and thio, and optionally containing one or more heteroatoms and optionally containing carbonyl groups; and

R<sup>5</sup> represents hydrogen, halogen, alkyl, alkenyl, alkynyl, phenyl, or -SO<sub>2</sub>-NR<sup>11</sup>R<sup>12</sup>,

wherein  $R^{11}$  and  $R^{12}$  independently represents hydrogen, alkyl, cycloalkyl, benzyl, or aryl; or  $R^{11}$  and  $R^{12}$ , together with the nitrogen to which they are attached, form a heterocyclic 5- to 6-membered ring structure;

$R^6$  represents hydrogen, Br, F, I, cycloalkyl, alkyl, alkoxy, or alkoxyalkyl; or  $R^6$  represents phenyl, which phenyl is optionally substituted one or more times with substituents selected from the group consisting of alkyl, and alkoxy; or  $R^6$  represents HET; or  $R^6$  represents  $-S-R^{15}$ ,  $-SO-R^{15}$ ,  $-SO_2-R^{15}$ ,  $-SO_2OR^{15}$ ,  $-SO_2-NR^{15}R^{16}$ ,  $-NHCOR^{15}$ ,  $-CONR^{15}R^{16}$ ,  $-CR'=NOR''$ ,  $-CO-R^{15}$ , or  $-CO_2-R^{15}$ , wherein  $R'$  and  $R''$  independently represents hydrogen, alkyl, cycloalkyl, phenyl, or benzyl; and  $R^{15}$  and  $R^{16}$  independently represents hydrogen, alkyl, cycloalkyl, benzyl, or aryl; or  $R^{15}$  and  $R^{16}$ , together with the nitrogen to which they are attached, form a heterocyclic 3- to 8-membered ring structure, which ring structure is optionally substituted with halogen, alkyl, alkenyl, alkynyl, hydroxy, alkoxy, amino or thio, phenyl, benzyl,  $-SO_2$ -alkyl,  $-SO_2$ -aryl,  $-SO_2$ -benzyl; and optionally the heterocyclic ring is fused to an aryl; and

$R^7$  represents Br, F, I, alkyl, cyano, cyanoalkyl, nitroalkyl, alkoxy, haloalkoxy, haloalkyl, hydroxyalkyl, cycloalkyl, cyclohaloalkyl,  $-(alkyl)_m-NR^{17}R^{18}$ ,  $-NHSO_2-R^{17}$ ,  $-S-R^{17}$ ,  $-SO-R^{17}$ ,  $-SO_2-R^{17}$ ,  $-SO_2OR^{17}$ ,  $-NHCOR^{17}$ ,  $-CONR^{17}R^{18}$ ,  $-CR'=NOR''$ ,  $-CO-R^{17}$ , or  $-CO_2-R^{17}$ ; wherein  $R'$  and  $R''$  independently represents hydrogen, alkyl, cycloalkyl, phenyl, or benzyl; and  $R^{17}$  and  $R^{18}$  independently represents hydrogen, alkyl, cycloalkyl, benzyl, or aryl; or  $R^{17}$  and  $R^{18}$ , together with the nitrogen to which they are attached, form a heterocyclic 3- to 8-membered ring structure, which ring structure is optionally substituted with alkyl,  $-SO_2$ -alkyl,  $-SO_2$ -aryl,  $-SO_2$ -benzyl, and optionally the heterocyclic ring is fused to an aryl; or  $R^7$  represents  $-(alkyl)_m-SO_2-NR^{17}R^{18}$ , wherein  $m$  is 0 or 1; and  $R^{17}$  and  $R^{18}$  independently of each another represents alkyl, cycloalkyl, benzyl, or aryl; or  $R^{17}$  and  $R^{18}$  together with the nitrogen to which they are attached form a heterocyclic 3- to 8-membered ring structure, which ring structure is optionally substituted with halogen, alkyl, alkenyl, alkynyl, hydroxy, alkoxy, amino, thio, aryl, benzyl,  $-SO_2$ -alkyl,  $-SO_2$ -aryl, or  $-SO_2$ -benzyl, and optionally the heterocyclic ring is fused to an aryl; or  $R^7$  represents HET, which HET is optionally substituted one or more times with substituents selected from halogen, alkyl, phenyl, and  $-SO_2NR^{17}R^{18}$ ; or  $R^7$  represents phenyl, which phenyl is optionally substituted one or more times with substituents selected from the group consisting of alkyl, hydroxy, alkoxy, halogen, haloalkyl, amino,  $-NHCO$ -alkyl, nitro,  $-OCF_3$ , or  $-SO_2$ -

NR<sup>17</sup>R<sup>18</sup>, wherein R<sup>17</sup> and R<sup>18</sup> independently represents hydrogen, alkyl, cycloalkyl, benzyl, or aryl; or R<sup>17</sup> and R<sup>18</sup>, together with the nitrogen to which they are attached, form a heterocyclic 3- to 8-membered ring structure, which ring structure is optionally substituted with halogen, alkyl, -SO<sub>2</sub>-alkyl, -SO<sub>2</sub>-aryl, -SO<sub>2</sub>-benzyl, and optionally the heterocyclic ring is fused to an aryl; or

R<sup>7</sup> together with R<sup>6</sup>, or together with R<sup>8</sup>, forms a 5- to 7-membered ring having the one of the following structures -O-(CH<sub>2</sub>)<sub>n</sub>-O-, wherein n is 1, 2 or 3; -SO<sub>2</sub>-NR-(CH<sub>2</sub>)<sub>n</sub>-, wherein R is hydrogen, alkyl, cycloalkyl, benzyl or aryl, and n is 1 or 2; -SO-NR-(CH<sub>2</sub>)<sub>n</sub>-, wherein R is hydrogen, alkyl, cycloalkyl, benzyl or aryl, and n is 1 or 2; -SO<sub>2</sub>-(CH<sub>2</sub>)<sub>n</sub>-, wherein n is 2 or 3; -SO-(CH<sub>2</sub>)<sub>n</sub>-, wherein n is 2 or 3; -CO-CH=CH-NH-; -CO-CH=CH-O-; -CO-(CH<sub>2</sub>)<sub>n</sub>-NH-, wherein n is 1 or 2; -CO-NH-(CH<sub>2</sub>)<sub>n</sub>, wherein n is 1 or 2; -CO-(CH<sub>2</sub>)<sub>2</sub>-O-; or -O-(CH<sub>2</sub>)<sub>n</sub>-O-, wherein n is 1, 2 or 3; and

R<sup>8</sup> represents hydrogen, alkyl, alkoxy, hydroxyalkyl, halogen, haloalkyl, CN, cyanoalkyl, nitro, or nitroalkyl; or R<sup>8</sup> represents phenyl, which phenyl is optionally substituted one or more times with substituents selected from the group consisting of alkyl, cycloalkyl, and alkoxy; or R<sup>8</sup> represents HET; or R<sup>8</sup> represents -S-R<sup>19</sup>, -SO-R<sup>19</sup>, -SO<sub>2</sub>-R<sup>19</sup>, -SO<sub>2</sub>OR<sup>19</sup>, -SO<sub>2</sub>-NR<sup>19</sup>R<sup>20</sup>, -NHCOR<sup>19</sup>, -CONR<sup>19</sup>R<sup>20</sup>, -CR'=NOR'', -CO-R<sup>19</sup>, or -CO<sub>2</sub>-R<sup>19</sup>, wherein R' and R'' independently represents hydrogen, alkyl, cycloalkyl, phenyl, or benzyl; and R<sup>19</sup> and R<sup>20</sup> independently represents hydrogen, alkyl, cycloalkyl, benzyl, or aryl; or R<sup>19</sup> and R<sup>20</sup>, together with the nitrogen to which they are attached, form a heterocyclic 3- to 8-membered ring structure, which ring structure is optionally substituted with halogen, alkyl, alkenyl, alkynyl, hydroxy, alkoxy, amino or thio, phenyl, benzyl, -SO<sub>2</sub>-alkyl, -SO<sub>2</sub>-aryl, -SO<sub>2</sub>-benzyl, and optionally the heterocyclic ring is fused to an aryl. [[:]]

3. (original) The compound of formula (I) according to claim 1, wherein R<sup>2</sup> represents hydrogen, alkyl, cycloalkyl, phenyl, or benzyl.

4. (original) The compound according to claim 1 wherein R<sup>3</sup> represents hydrogen, cycloalkyl, alkyl, haloalkyl, alkoxy, a carbocyclic 7- to 10-membered ring, a heterocyclic 5- to 6-membered ring, or benzyl; or R<sup>3</sup> together with R<sup>4</sup> forms a 5- to 6- membered ring, which ring is optionally substituted one or more times with substituents selected from halogen, alkyl, alkenyl,

alkynyl, hydroxy, alkoxy, amino, and thio, and optionally containing one or more heteroatoms and optionally containing carbonyl groups.

5. (original) The compound according to claim 1 wherein  $R^4$  represents hydrogen, or alkyl; or  $R^4$  together with  $R^3$ , and together with the atoms to which they are attached, forms a 5- to 6- membered ring, which ring is optionally substituted one or more times with substituents selected from halogen, alkyl, alkenyl, alkynyl, hydroxy, alkoxy, amino, and thio, and optionally containing one or more heteroatoms and optionally containing carbonyl groups.

6. (original) The compound according to claim 1 wherein  $R^5$  represents hydrogen, halogen, alkyl, alkenyl, alkynyl, phenyl, or  $-\text{SO}_2-\text{NR}^{11}\text{R}^{12}$ , wherein  $R^{11}$  and  $R^{12}$  independently represents hydrogen, alkyl, cycloalkyl, benzyl, or aryl; or  $R^{11}$  and  $R^{12}$ , together with the nitrogen to which they are attached, form a heterocyclic 3- to 8-membered ring structure.

7. (original) The compound according to claim 1, wherein  $R^6$  represents hydrogen, halogen, cycloalkyl, alkyl, alkoxy, or alkoxyalkyl; or  $R^6$  represents aryl, which aryl is optionally substituted one or more times with substituents selected from the group consisting of alkyl, and alkoxy; or  $R^6$  represents HET; or  $R^6$  represents  $-\text{S}-\text{R}^{15}$ ,  $-\text{SO}-\text{R}^{15}$ ,  $-\text{SO}_2-\text{R}^{15}$ ,  $-\text{SO}_2\text{OR}^{15}$ ,  $-\text{SO}_2-\text{NR}^{15}\text{R}^{16}$ ,  $-\text{NHCOR}^{15}$ ,  $-\text{CONR}^{15}\text{R}^{16}$ ,  $-\text{CR}'=\text{NOR}''$ ,  $-\text{CO}-\text{R}^{15}$ , or  $-\text{CO}_2-\text{R}^{15}$ , wherein  $\text{R}'$  and  $\text{R}''$  independently represents hydrogen, alkyl, cycloalkyl, phenyl, or benzyl; and  $\text{R}^{15}$  and  $\text{R}^{16}$  independently represents hydrogen, alkyl, cycloalkyl, benzyl, or aryl; or  $\text{R}^{15}$  and  $\text{R}^{16}$ , together with the nitrogen to which they are attached, form a heterocyclic 3- to 8-membered ring structure, which ring structure is optionally substituted with halogen, alkyl, alkenyl, alkynyl, hydroxy, alkoxy, amino or thio, phenyl, benzyl,  $-\text{SO}_2$ -alkyl,  $-\text{SO}_2$ -aryl, or  $-\text{SO}_2$ -benzyl, and optionally the heterocyclic ring is fused to an aryl.

8. (original) The compound according to claim 1 wherein  $R^7$  represents halogen, alkyl, cyano, cyanoalkyl, alkoxy, haloalkoxy, haloalkyl, hydroxyalkyl, cycloalkyl, cyclohaloalkyl,  $-(\text{alkyl})_m-\text{NR}^{17}\text{R}^{18}$ ,  $-\text{NHSO}_2-\text{R}^{17}$ ,  $-\text{S}-\text{R}^{17}$ ,  $-\text{SO}-\text{R}^{17}$ ,  $-\text{SO}_2-\text{R}^{17}$ ,  $-\text{SO}_2\text{OR}^{17}$ ,  $-\text{NHCOR}^{17}$ ,  $-\text{CONR}^{17}\text{R}^{18}$ ,  $-\text{CR}'=\text{NOR}''$ ,  $-\text{CO}-\text{R}^{17}$ , or  $-\text{CO}_2-\text{R}^{17}$ , wherein  $\text{R}'$  and  $\text{R}''$  independently represents

hydrogen, alkyl, cycloalkyl, phenyl, or benzyl; and  $R^{17}$  and  $R^{18}$  independently represents hydrogen, alkyl, cycloalkyl, benzyl, or aryl; or  $R^{17}$  and  $R^{18}$ , together with the nitrogen to which they are attached, form a heterocyclic 3- to 8-membered ring structure, which ring structure is optionally substituted with alkyl,  $-\text{SO}_2\text{-alkyl}$ ,  $-\text{SO}_2\text{-aryl}$ ,  $-\text{SO}_2\text{-benzyl}$ , and optionally the heterocyclic ring is fused to an aryl; or  $R^7$  represents  $-(\text{alkyl})_m\text{-SO}_2\text{-NR}^{17}\text{R}^{18}$ , wherein  $m$  is 0 or 1; and  $R^{17}$  and  $R^{18}$  independently represents alkyl, cycloalkyl, benzyl, or aryl; or  $R^{17}$  and  $R^{18}$ , together with the nitrogen to which they are attached, form a heterocyclic 3- to 8-membered ring structure, which ring structure is optionally substituted with alkyl,  $-\text{SO}_2\text{-alkyl}$ ,  $-\text{SO}_2\text{-aryl}$ , or  $-\text{SO}_2\text{-benzyl}$ , and optionally the heterocyclic ring is fused to an aryl; or  $R^7$  represents HET, which HET is optionally substituted one or more times with substituents selected from halogen, alkyl, phenyl, or  $-\text{SO}_2\text{NR}^{17}\text{R}^{18}$ , wherein  $R^{17}$  and  $R^{18}$  independently represents hydrogen, alkyl, cycloalkyl, benzyl, or aryl; or  $R^{17}$  and  $R^{18}$ , together with the nitrogen to which they are attached, form a heterocyclic 3- to 8-membered ring structure, which ring structure is optionally substituted with halogen, alkyl,  $-\text{SO}_2\text{-alkyl}$ ,  $-\text{SO}_2\text{-aryl}$ , or  $-\text{SO}_2\text{-benzyl}$ , and optionally the heterocyclic ring is fused to an aryl; or  $R^7$  represents phenyl optionally substituted one or more times with substituents selected from the group consisting of alkyl, hydroxy, alkoxy, halogen, haloalkyl, amino,  $\text{NHCO-alkyl}$ , nitro,  $\text{OCF}_3$ ,  $-\text{SO}_2\text{-NR}^{17}\text{R}^{18}$ , wherein  $R^{17}$  and  $R^{18}$  independently represents hydrogen, alkyl, cycloalkyl, benzyl, or aryl; or  $R^{17}$  and  $R^{18}$ , together with the nitrogen to which they are attached, form a heterocyclic 3- to 8-membered ring structure, which ring structure is optionally substituted with halogen, alkyl,  $-\text{SO}_2\text{-alkyl}$ ,  $-\text{SO}_2\text{-aryl}$ , or  $-\text{SO}_2\text{-benzyl}$ , and optionally the heterocyclic ring is fused to an aryl; or  $R^7$  together with  $R^6$ , or together with  $R^8$ , forms a 5- to 7-membered ring having the one of the following structures  $-\text{O}-(\text{CH}_2)_n\text{-O-}$ , wherein  $n$  is 1, 2 or 3;  $-\text{SO}_2\text{-NR}-(\text{CH}_2)_n\text{-}$ , wherein  $R$  is hydrogen, alkyl, cycloalkyl, benzyl or aryl, and  $n$  is 1 or 2;  $-\text{SO-NR}-(\text{CH}_2)_n\text{-}$ , wherein  $R$  is hydrogen, alkyl, cycloalkyl, benzyl or aryl, and  $n$  is 1 or 2;  $-\text{SO}_2-(\text{CH}_2)_n\text{-}$ , wherein  $n$  is 2 or 3;  $-\text{SO}-(\text{CH}_2)_n\text{-}$ , wherein  $n$  is 2 or 3;  $-\text{CO-CH=CH-NH-}$ ;  $-\text{CO-CH=CH-O-}$ ;  $-\text{CO}-(\text{CH}_2)_n\text{-NH-}$ , wherein  $n$  is 1 or 2;  $-\text{CO-NH}-(\text{CH}_2)_n\text{-}$ , wherein  $n$  is 1 or 2;  $-\text{CO}-(\text{CH}_2)_2\text{-O-}$ ; or  $-\text{O}-(\text{CH}_2)_n\text{-O-}$ , wherein  $n$  is 1, 2 or 3.

9. (original) The compound according to claim 1, wherein  $R^8$  represents hydrogen, alkyl, alkoxy, hydroxyalkyl, halogen, haloalkyl, CN, cyanoalkyl, nitro, or nitroalkyl; or  $R^8$  represents

phenyl, which phenyl is optionally substituted one or more times with substituents selected from the group consisting of alkyl, cycloalkyl, and alkoxy; or  $R^8$  represents HET; or  $R^8$  represents  $-S-R^{19}$ ,  $-SO-R^{19}$ ,  $-SO_2-R^{19}$ ,  $-SO_2OR^{19}$ ,  $-SO_2-NR^{19}R^{20}$ ,  $-NHCOR^{19}$ ,  $-CONR^{19}R^{20}$ ,  $-CR'=NOR''$ ,  $-CO-R^{19}$ , or  $-CO_2-R^{19}$ , wherein  $R'$  and  $R''$  independently represents hydrogen, alkyl, cycloalkyl, phenyl, or benzyl; and  $R^{19}$  and  $R^{20}$  independently represents hydrogen, alkyl, cycloalkyl, benzyl, or aryl; or  $R^{19}$  and  $R^{20}$ , together with the nitrogen to which they are attached, form a heterocyclic 3- to 8-membered ring structure, which ring structure is optionally substituted with halogen, alkyl, alkenyl, alkynyl, hydroxy, alkoxy, amino or thio, phenyl, benzyl,  $-SO_2$ -alkyl,  $-SO_2$ -aryl, or  $-SO_2$ -benzyl, and optionally the heterocyclic ring is fused to an aryl.

10. (original) The compound according to claim 1 wherein X represents  $SO_2$ ; and Y represents N; and  $R^2$  represents H; and  $R^3$  represents cycloalkyl, a carbocyclic 7- to 10-membered ring, a heterocyclic 5- to 6-membered ring; and  $R^4$  represents H; and  $R^5$  represents H; and  $R^6$  represents hydrogen, alkyl or halogen; and  $R^7$  represents cyanoalkyl, nitroalkyl, haloalkyl, or  $-(alkyl)_m-SO-R^{17}$ ,  $-(alkyl)_m-SO_2-R^{17}$ ,  $-(alkyl)_mCONR^{17}R^{18}$ ,  $-(alkyl)_m-CR'=NOR''$ ,  $-(alkyl)_m-CO-R^{17}$ , or  $-(alkyl)_mCO_2-R^{17}$ , wherein m is 0 or 1; and  $R'$  and  $R''$  independently represents hydrogen, alkyl, cycloalkyl, phenyl, or benzyl; and  $R^{17}$  and  $R^{18}$  independently represents hydrogen, alkyl, cycloalkyl, benzyl, or aryl; or  $R^{17}$  and  $R^{18}$ , together with the nitrogen to which they are attached, form a heterocyclic 3- to 8-membered ring structure, which ring structure is optionally substituted with alkyl,  $-SO_2$ -alkyl,  $-SO_2$ -aryl, or  $-SO_2$ -benzyl, and optionally the heterocyclic ring is fused to an aryl; or  $R^7$  represents  $-(alkyl)_m-SO_2-NR^{17}R^{18}$ , wherein m is 0 or 1; and  $R^{17}$  and  $R^{18}$  independently represents alkyl, cycloalkyl, benzyl, or aryl; or  $R^{17}$  and  $R^{18}$ , together with the nitrogen to which they are attached, form a heterocyclic 3- to 8-membered ring structure, which ring structure is optionally substituted with alkyl,  $-SO_2$ -alkyl,  $-SO_2$ -aryl, or  $-SO_2$ -benzyl, and optionally the heterocyclic ring is fused to an aryl; or  $R^7$  represents HET; or  $R^7$  together with  $R^6$ , or together with  $R^8$ , forms a 5- to 7-membered ring having the one of the following structures  $-O-(CH_2)_n-O-$ , wherein n is 1, 2 or 3;  $-SO_2-NR-(CH_2)_n-$ , wherein R is hydrogen, alkyl, cycloalkyl, benzyl or aryl, and n is 1 or 2;  $-SO-NR-(CH_2)_n-$ , wherein R is hydrogen, alkyl, cycloalkyl, benzyl or aryl, and n is 1 or 2;  $-SO_2-(CH_2)_n-$ , wherein n is 2 or 3;  $-SO-(CH_2)_n-$ , wherein n is 2 or 3;  $-CO-CH=CH-NH-$ ;  $-CO-CH=CH-O-$ ;  $-CO-$

$(\text{CH}_2)_n\text{-NH-}$ , wherein  $n$  is 1 or 2;  $\text{-CO-NH-}(\text{CH}_2)_n$ , wherein  $n$  is 1 or 2;  $\text{-CO-}(\text{CH}_2)_2\text{-O-}$ ; or  $\text{-O-}(\text{CH}_2)_n\text{-O-}$ , wherein  $n$  is 1, 2 or 3; and  $\text{R}^8$  represents alkyl, halogen, cyanoalkyl, nitroalkyl, haloalkyl,  $\text{-(alkyl)}_m\text{-SO-R}^{17}$ ,  $\text{-(alkyl)}_m\text{-SO}_2\text{-R}^{17}$ ,  $\text{-(alkyl)}_m\text{-SO}_2\text{-NR}^{17}\text{R}^{18}$ ,  $\text{-(alkyl)}_m\text{CONR}^{17}\text{R}^{18}$ ,  $\text{-(alkyl)}_m\text{-CR}'\text{=NOR}''$ ,  $\text{-(alkyl)}_m\text{-CO-R}^{17}$ , or  $\text{-(alkyl)}_m\text{CO}_2\text{-R}^{17}$ , wherein  $m$  is 0 or 1;  $\text{R}'$  and  $\text{R}''$  independently represents hydrogen, alkyl, cycloalkyl, phenyl, or benzyl; and  $\text{R}^{17}$  and  $\text{R}^{18}$  independently represents hydrogen, alkyl, cycloalkyl, benzyl, or aryl; or  $\text{R}^{17}$  and  $\text{R}^{18}$ , together with the nitrogen to which they are attached, forms a heterocyclic 3- to 8-membered ring structure, which ring structure is optionally substituted with alkyl,  $\text{-SO}_2\text{-alkyl}$ ,  $\text{-SO}_2\text{-aryl}$ , or  $\text{-SO}_2\text{-benzyl}$ , and optionally the heterocyclic ring is fused to an aryl; or  $\text{R}^8$  represents HET.

11. (original) The compound according to claim 1, wherein  $\text{R}^3$  represents hydrogen, cyclopropyl, cyclopentyl, cyclohexyl, methyl, ethyl, propyl, isopropyl,  $\text{CF}_3$ , ethoxy, norbornene, norbornane, adamantane, or benzyl; or  $\text{R}^3$  together with  $\text{R}^4$ , and together with the atoms to which they are attached, forms a 5-membered ring.

12. (original) The compound according to claim 1, wherein  $\text{R}^4$  represents hydrogen, methyl, or ethyl; or  $\text{R}^4$  together with  $\text{R}^3$ , and together with the atoms to which they are attached, forms a 5-membered ring.

13. (original) The compound according to claim 1, wherein  $\text{R}^5$  represents hydrogen, chloro, bromo, methyl, or phenyl.

14. (original) The compound of formula I, according to claim 1, wherein  $\text{R}^6$  represents hydrogen, 2-methoxyphenyl, 2-pyridyl, 3-pyridyl, methyl, methoxy, chloro or bromo.

15. (original) The compound of formula I, according to claim 1, wherein  $\text{R}^7$  represents chloro, bromo, methyl, 1-hydroxyethyl, acetyl,  $\text{-(CH}_3\text{)C=N-OH}$ ,  $\text{-CONH}_2$ ,  $\text{-CO}_2\text{-ethyl}$ , cyano, phenyl, 2-N-acetylamino-phenyl, 2-nitrophenyl, 2-methoxyphenyl, 4-trifluoromethyl-2-methoxyphenyl, 2,4-dimethoxyphenyl, 2-N,N-dimethylsulfamoylphenyl, 2-chlorophenyl, 2-fluorophenyl, 3-hydroxyphenyl, 2-pyridyl, 3-pyridyl, 2-pyrimidyl, 2-furyl, 3-furyl, 2-thienyl, 2-

(N-methyl)-imidazolyl, 5-triazolyl, 4-phenyl-triazol-5-yl, 5-methyl-1,2,4-oxadiazol-3-yl, CH<sub>3</sub>CONH-, CH<sub>3</sub>SO<sub>2</sub>NH-, -SO<sub>2</sub>OH, phenyl-SO<sub>2</sub>-, N,N-dimethylsulfamoyl, N,N-diethylsulfamoyl, N-phenyl-N-methyl-sulfamoyl, or -SO<sub>2</sub>-heterocyclic ring, wherein the heterocyclic rings are selected from the group of piperidine, pyrrolidine, 1,2,5,6-tetrahydropyridine, tetrahydroquinoline, N-methylpiperazine, N-sulfonylmethyl-piperazine, and morpholine.

16. (original) The compound of formula I according to claim 1 wherein R<sup>8</sup> represents hydrogen, methyl, hydroxymethyl, 2-methoxyphenyl, 3-methoxyphenyl, 2-pyridyl, or methoxy.

17. (original) The compound of formula II according to claim 2, wherein R<sup>2</sup> represents hydrogen or CH<sub>3</sub>; and R<sup>3</sup> represents cyclohexyl, cyclopentyl, norbornene, norbornane, adamantane, or ethoxy; and R<sup>4</sup> represents hydrogen or CH<sub>3</sub>; and R<sup>5</sup> represents hydrogen, CH<sub>3</sub>, phenyl, sulfamoyl, chloro, or bromo; and R<sup>6</sup> represents hydrogen, CH<sub>3</sub>, 2-methoxyphenyl, methoxy, chloro, bromo, 2-pyridyl, or 3-pyridyl; and R<sup>7</sup> represents chloro, bromo, methyl, 1-hydroxyethyl, acetyl, -(CH<sub>3</sub>)C=N-OH, -CONH<sub>2</sub>, -CO<sub>2</sub>-ethyl, cyano, phenyl, 2-N-acetylaminophenyl, 2-nitrophenyl, 2-methoxyphenyl, 4-trifluoromethyl-2-methoxyphenyl, 2,4-dimethoxyphenyl, 2-N,N-dimethylsulfamoylphenyl, 2-chlorophenyl, 2-fluorophenyl, 3-hydroxyphenyl, 2-pyridyl, 3-pyridyl, 2-pyrimidyl, 2-furyl, 3-furyl, 2-thienyl, 2-(N-methyl)-imidazolyl, 5-triazolyl, 4-phenyl-triazol-5-yl, 5-methyl-1,2,4-oxadiazol-3-yl, -CH<sub>3</sub>CONH-, -CH<sub>3</sub>SO<sub>2</sub>NH-, -SO<sub>2</sub>OH, phenyl-SO<sub>2</sub>-, N,N-dimethylsulfamoyl, N,N-diethylsulfamoyl, N-phenyl-N-methyl-sulfamoyl, or -SO<sub>2</sub>-heterocyclic ring, wherein the heterocyclic rings are selected from the group of piperidine, pyrrolidine, 1,2,5,6-tetrahydropyridine, tetrahydroquinoline, N-methylpiperazine, N-sulfonylmethyl-piperazine, and morpholine; and R<sup>8</sup> represents methyl, hydroxymethyl, 2-methoxyphenyl, 3-methoxyphenyl, 2-pyridyl, or methoxy.

18. (original) The compound of formula I according to claim 1, wherein X is C=O; and Y is N, O or CH; and R<sup>2</sup> represents hydrogen; and R<sup>3</sup> represents hydrogen, CH<sub>3</sub>, CF<sub>3</sub>, cyclohexyl, norbornene, phenyl, or ethyl; and R<sup>7</sup> represents hydrogen, N,N-dimethylsulfamoyl,

N-cyclohexylsulfamoyl, tetrahydropyrid-1-yl-sulfuric acid, morpholin-4-yl-sulfuric acid, sulfamoyl, bromo; and R<sup>5</sup> represents hydrogen or bromo; and R<sup>4</sup>, R<sup>6</sup> and R<sup>8</sup> all represent hydrogen.

19. (original) The compound of formula I according to claim 1, wherein X represents CH<sub>2</sub>; and Y is N; and R<sup>3</sup> represents cyclohexyl or norbornene; and R<sup>5</sup> represents hydrogen or bromo; and R<sup>7</sup> represents bromo or sulfamoyl; and R<sup>2</sup>, R<sup>4</sup>, R<sup>6</sup> and R<sup>8</sup> all represent hydrogen.

20. (original) The compound of formula I according to claim 1, wherein X is SO<sub>2</sub>; and N is -NHCH<sub>2</sub>-; and R<sup>3</sup> represents 3-methylbut-2-yl, phenyl or cyclohexyl; and R<sup>7</sup> represents 1-piperidiny-sulfuric acid.

21. (original) The compound of formula I according to claim 1, said compound being:  
2-Cyclohexyl-4-oxo-1,2,3,4-tetrahydroquinazoline;  
2-Phenyl-4-oxo-1,2,3,4-tetrahydroquinazoline;  
2-Methyl-3,4-dihydro-1,3-benzoxazine-4-one;  
2-Phenyl-3,4-dihydro-1,3-benzoxazine-4-one;  
2-Ethyl-2-methyl-3,4-dihydro-1,3-benzoxazine-4-one;  
2-Methyl-4-oxo-3,4-dihydro-6-quinazoline-*N,N*-dimethylsulfonamide;  
2-Trifluoromethyl-4-oxo-3,4-dihydro-6-quinazoline sulfonamide;  
2-Trifluoromethyl-4-oxo-3,4-dihydro-6-quinazoline *N,N*-dimethylsulfonamide;  
2-Trifluoromethyl-4-oxo-3,4-dihydro-6-quinazoline-1',2',3',6'-  
tetrahydropiperidinosulfonamide;  
2-Trifluoromethyl-4-oxo-3,4-dihydro-6-quinazoline *N*-cyclohexylsulfonamide;  
2-Trifluoromethyl-4-oxo-3,4-dihydro-6-quinazoline morpholinosulfonamide;  
2-Cyclohexyl-4-oxo-3,4-dihydro-6-quinazoline-*N,N*-dimethylsulfonamide;  
2-Trifluoromethyl-4-oxo-3,4-dihydro-6-quinazolinesulfonic acid;  
2-cyclohexylmethylamino-5-*N,N*-dimethylsulfamoylbenzenesulfonamide; or  
2-Ethylamino-7-(1',2',3',6'-tetrahydropiperidino)sulfonylbenzene sulfonamide;  
or a pharmaceutical acceptable salt thereof.

22. (original) The 1,2,4-benzothiadiazine derivative according to claim 2, said compound being:

- 3-Bicyclo[2.2.1]hept-5'-en-2'-yl-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;
- 1,2,3,5,10,10a-Hexahydrobenzo[*e*]pyrrolo[1,2-*b*]-1,2,4-thiadiazine-5,5-dioxide;
- 3-Cyclohexyl-6-(2-methoxyphenyl)-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;
- 3-Cyclohexyl-6-(2-pyridyl)-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;
- 3-Cyclohexyl-6-(3-pyridyl)-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;
- 3-Cyclohexyl-7-(1-hydroxyethyl)-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;
- 3-Cyclohexyl-7-acetyl-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;
- 3-Cyclohexyl-7-(1-hydroxyiminoethyl)-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;
- 3-Cyclohexyl-7-carbamoyl-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;
- 3-Cyclohexyl-7-ethoxycarbonyl-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;
- 3-Cyclohexyl-7-cyano-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;
- 3-Bicyclo[2.2.1]hept-5'-en-2'-yl-7-phenyl-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;
- 3-Cyclohexyl-7-(2'-acetamidophenyl)-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;
- 3-Cyclohexyl-7-(2'-nitrophenyl)-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;
- 3-Cyclohexyl-7-(2'-methoxyphenyl)-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;
- 3-Cyclohexyl-7-(2'-methoxy-4'-trifluoromethylphenyl)-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;
- 3-Cyclohexyl-7-(2',4'-dimethoxyphenyl)-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;
- 3-Cyclohexyl-7-(2'-(*N,N*-dimethylsulfamoyl)phenyl)-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;
- 3-Cyclohexyl-7-(2'-chlorophenyl)-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;
- 3-Cyclohexyl-7-(2'-fluorophenyl)-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;
- 3-Cyclohexyl-7-(3'-hydroxyphenyl)-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;
- 3-Cyclohexyl-7-(2'-pyridyl)-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;
- 3-Cyclohexyl-7-(3'-pyridyl)-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;

3-Cyclohexyl-7-(2'-pyrimidinyl)-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;  
3-Cyclohexyl-7-(2'-furyl)-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;  
3-Cyclohexyl-7-(3'-furyl)-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;  
3-Cyclohexyl-7-(2'-thienyl)-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;  
3-Cyclohexyl-7-(1-methyl-1*H*-2-imidazolyl)-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;  
3-Cyclohexyl-7-(1',2',3'-triazol-4'-yl)-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;  
3-Cyclohexyl-7-(5'-phenyl-1',2',3'-triazol-4'-yl)-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;  
3-Cyclohexyl-7-(5'-methyl-1',2',4'-oxadiazol-3-yl)-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;  
3-Cyclohexyl-7-acetamido-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;  
3-Cyclohexyl-7-methylsulfonylamino-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;  
3-Cyclohexyl-7-phenylsulfonyl-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;  
2-Cyclohexyl-1,2,3,4-tetrahydro-6-quinazoline sulfonamide;  
3-Methyl-7-dimethylsulfamoyl-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;  
2-Cyclohexyl-1,2,3,4-tetrahydro-6-quinazoline *N,N*-dimethylsulfonamide;  
3-Cyclohexyl-7-dimethylaminosulfonyl-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;  
3-Cyclohexyl-7-(*N,N*-diethylamino)sulfonyl-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;  
3-Cyclohexyl-7-pyrrolidinosulfonyl-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;  
3-Methyl-7-piperidinosulfonyl-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;  
3-Cyclopropyl-7-piperidinosulfonyl-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;  
3-Isopropyl-7-piperidinosulfonyl-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;  
3-propyl-7-piperidinosulfonyl-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;  
3-Benzyl-7-piperidinosulfonyl-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;  
3-Cyclopentyl-7-piperidinosulfonyl-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;  
3-Cyclohexyl-7-piperidinosulfonyl-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;

3-Bicyclo[2.2.1]hept-5'-en-2'-yl-7-piperidinosulfonyl-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;

3-Cyclohexyl-7-(1',2',3',6'-tetrahydropiperidino)sulfonyl-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;

3-Cyclohexyl-7-(*N*-methyl-*N*-phenylamino)sulfonyl-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;

3-Cyclohexyl-7-(1'-(1',2',3',4'-tetrahydroquinolinyl))sulfonyl-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;

3-Cyclohexyl-7-(4'-methylpiperazino)sulfonyl-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;

3-Cyclohexyl-7-(4'-methylsulfonylpiperazino)sulfonyl-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;

3-Cyclohexyl-7-morpholinosulfonyl-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;

3-Methyl-7-dimethylsulfamoyl-1,2-dihydro-1,2,4-benzothiadiazine-1,1-dioxide;

3-Methyl-7-(1',2',3',6'-tetrahydropiperidino)sulfonyl-1,2-dihydro-1,2,4-benzothiadiazine-1,1-dioxide;

3-Trifluoromethyl-7-dimethylsulfamoyl-1,2-dihydro-1,2,4-benzothiadiazine-1,1-dioxide;

3-Cyclohexyl-8-methyl-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;

3-Cyclohexyl-8-hydroxymethyl-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;

3-Cyclohexyl-8-(2-methoxyphenyl)-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;

3-Cyclohexyl-8-(3-methoxyphenyl)-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;

3-Cyclohexyl-8-(2-pyridyl)-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;

3-Cyclohexyl-8-methoxy-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;

5,7-Dibromo-1,2-dihydro-1,2,4-benzothiadiazine-1,1-dioxide;

3-Cyclohexyl-2-methyl-7-morpholinosulfonyl-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;

3-Cyclohexyl-4-methyl-7-morpholinosulfonyl-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;

7-Methylsulfonylamino-1,2,3,3a,4,5-hexahydrobenzo[*e*]pyrrolo[2,1-*c*]-1,2,4-thiadiazine-5,5-dioxide;

7-Sulfamoyl-1,2,3,3a,4,5-hexahydrobenzo[*e*]pyrrolo[2,1-*c*]-1,2,4-thiadiazine-5,5-dioxide;

7-Methylsulfamoyl-1,2,3,3a,4,5-hexahydrobenzo[*e*]pyrrolo[2,1-*c*]-1,2,4-thiadiazine-5,5-dioxide;

7-Dimethylsulfamoyl-1,2,3,3a,4,5-hexahydrobenzo[*e*]pyrrolo[2,1-*c*]-1,2,4-thiadiazine-5,5-dioxide;

7-Dimethylsulfamoyl-1,2,3,5-tetrahydrobenzo[*e*]pyrrolo[2,1-*c*]-1,2,4-thiadiazine-5,5-dioxide;

7-(1',2',3',6'-Tetrahydropiperidino)sulfonyl-1,2,3,5-tetrahydrobenzo[*e*]pyrrolo[2,1-*c*]-1,2,4-thiadiazine-5,5-dioxide;

3-Bicyclo[2.2.1]hept-5'-en-2'-yl-5,7-dimethyl-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;

3-Cyclohexyl-7-(*N,N*-diethylsulphamoyl)-5-methyl-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;

3-Bicyclo[2.2.1]hept-5'-en-2'-yl-5,7-diphenyl-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;

3-Cyclohexyl-6-methyl-7-(2'-pyridyl)-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;

3-Cyclohexyl-6-methyl-7-(4'-triazolyl)-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;

3-Cyclopentyl-6-methyl-7-piperidinosulfonyl-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;

3-Cyclohexyl-6-methyl-7-morpholinosulfonyl-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;

3-Cyclohexyl-6-(2-methoxyphenyl)-7-methyl-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;

3-Cyclohexyl-6-methoxy-7-piperidinosulfonyl-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;

3-Cyclohexyl-7,8-ethylenedioxy-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;

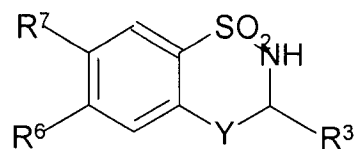
3-cyclohexyl-6,7-ethylenedioxy-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide;

or

3-Isobutyl-8-(piperidinosulfonyl)-2,3,4,5-tetrahydro-1,2,5-benzothiadiazepine-1,1-dioxide;

or a pharmaceutical acceptable salt thereof.

23. (original) A compound having the general formula (III)



wherein

Y represents CH(R<sup>4</sup>), N(R<sup>4</sup>) or N(R<sup>4</sup>)-CH<sub>2</sub>, or O; and

R<sup>3</sup> represents a carbocyclic 7- to 12- membered ring, which carbocyclic ring is optionally substituted with halogen, alkyl, hydroxy or alkoxy; and

R<sup>6</sup> represents haloalkyl, and

R<sup>7</sup> represents halogen, alkyl, cyano, cyanoalkyl, nitroalkyl, alkoxy, haloalkoxy, haloalkyl, hydroxyalkyl, cycloalkyl, or cyclohaloalkyl, or R<sup>7</sup> represents -NR<sup>17</sup>R<sup>18</sup>, -NHSO<sub>2</sub>-R<sup>17</sup>, or -NHSO<sub>2</sub>-aryl, wherein the aryl is optionally substituted one or more times with substituents selected from halogen, alkyl, cycloalkyl, hydroxy, alkoxy, amino, thio, -CF<sub>3</sub>, -OCF<sub>3</sub>, -NO<sub>2</sub>, and aryl; or R<sup>7</sup> represents -(alkyl)<sub>m</sub>-S-R<sup>17</sup>, -(alkyl)<sub>m</sub>-SO-R<sup>17</sup>, -(alkyl)<sub>m</sub>-SO<sub>2</sub>-R<sup>17</sup>, -(alkyl)<sub>m</sub>-SO<sub>2</sub>OR<sup>17</sup>, -(alkyl)<sub>m</sub>NHCOR<sup>17</sup>, -(alkyl)<sub>m</sub>CONR<sup>17</sup>R<sup>18</sup>, -(alkyl)<sub>m</sub>-CR'=NOR'', -(alkyl)<sub>m</sub>-CO-R<sup>17</sup>, or -(alkyl)<sub>m</sub>CO<sub>2</sub>-R<sup>17</sup>, wherein m is 0 or 1; and R' and R'' independently represents hydrogen, alkyl, cycloalkyl, alkenyl, alkynyl, aryl, or benzyl; and R<sup>17</sup> and R<sup>18</sup> independently represents hydrogen, alkyl, cycloalkyl, benzyl, or aryl, or R<sup>17</sup> and R<sup>18</sup> together with the nitrogen to which they are attached forms a heterocyclic 3- to 8-membered ring structure, which ring structure is optionally substituted with halogen, alkyl, alkenyl, alkynyl, hydroxy, alkoxy, amino, thio, aryl, benzyl, -SO<sub>2</sub>-alkyl, -SO<sub>2</sub>-aryl, or -SO<sub>2</sub>-benzyl, and optionally the heterocyclic ring is fused to an aryl; or R<sup>7</sup> represents -(alkyl)<sub>m</sub>-SO<sub>2</sub>-NR<sup>17</sup>R<sup>18</sup>, wherein m is 0 or 1; and R<sup>17</sup> and R<sup>18</sup> independently of each another represents alkyl, cycloalkyl, benzyl, or aryl; or R<sup>17</sup> and R<sup>18</sup> together with the nitrogen to which they are attached form a heterocyclic 3- to 8-membered ring structure, which ring structure is optionally substituted with halogen, alkyl, alkenyl, alkynyl, hydroxy, alkoxy, amino, thio, aryl, benzyl, -SO<sub>2</sub>-alkyl, -SO<sub>2</sub>-aryl, or -SO<sub>2</sub>-benzyl, and optionally the heterocyclic ring is fused to an aryl; or R<sup>7</sup> represents HET, optionally substituted one or more times with substituents

selected from halogen, alkyl, alkenyl, alkynyl, hydroxy, alkoxy, amino, thio, aryl, -S-alkyl, -S-aryl, -SO-alkyl, -SO--aryl, -SO<sub>2</sub>-alkyl, -SO<sub>2</sub>-aryl, and -SO<sub>2</sub>NR<sup>17</sup>R<sup>18</sup>; or R<sup>7</sup> represents aryl, optionally substituted one or more times with substituents selected from the group consisting of alkyl, alkenyl, alkynyl, hydroxy, alkoxy, hydroxyalkyl, halogen, haloalkyl, amino, -NHCO-alkyl, nitro, -OCF<sub>3</sub>, and -SO<sub>2</sub>-NR<sup>17</sup>R<sup>18</sup>, wherein R<sup>17</sup> and R<sup>18</sup> independently represents hydrogen, alkyl, cycloalkyl, benzyl, or aryl, or R<sup>17</sup> and R<sup>18</sup> together with the nitrogen to which they are attached form a heterocyclic 3- to 8-membered ring structure, which ring structure is optionally substituted with halogen, alkyl, alkenyl, alkynyl, hydroxy, alkoxy, amino, thio, aryl, benzyl, -SO<sub>2</sub>-alkyl, -SO<sub>2</sub>-aryl, or -SO<sub>2</sub>-benzyl, and optionally the heterocyclic ring is fused to an aryl;

or

R<sup>7</sup> together with R<sup>6</sup>, or together with R<sup>8</sup>, forms a 5- to 7-membered ring having the one of the following structures -O-(CH<sub>2</sub>)<sub>n</sub>-O-, wherein n is 1, 2 or 3; -SO<sub>2</sub>-NR-(CH<sub>2</sub>)<sub>n</sub>-, wherein R is hydrogen, alkyl, cycloalkyl, benzyl or aryl, and n is 1 or 2; -SO-NR-(CH<sub>2</sub>)<sub>n</sub>-, wherein R is hydrogen, alkyl, cycloalkyl, benzyl or aryl, and n is 1 or 2; -SO<sub>2</sub>-(CH<sub>2</sub>)<sub>n</sub>-, wherein n is 2 or 3; -SO-(CH<sub>2</sub>)<sub>n</sub>-, wherein n is 2 or 3; -CO-CH=CH-NH-; -CO-CH=CH-O-; -CO-(CH<sub>2</sub>)<sub>n</sub>-NH-, wherein n is 1 or 2; -CO-NH-(CH<sub>2</sub>)<sub>n</sub>, wherein n is 1 or 2; -CO-(CH<sub>2</sub>)<sub>2</sub>-O-; or -O-(CH<sub>2</sub>)<sub>n</sub>-O-, wherein n is 1, 2 or 3.

24. (original) A pharmaceutical composition comprising an effective amount of a chemical compound according to claim 1, or a pharmaceutically acceptable salt thereof, or a pharmaceutically acceptable excipient, carrier or diluent.

25. – 27. (cancelled).

28. (original) A method of treating a disorder or disease of a living animal body, including a human, which disorder or disease is responsive to modulation of the AMPA receptor complex of the central nervous system, which method comprises administration of a therapeutically effective amount of a chemical compound according to claim 1.

29. (original) The method according to claim 28, wherein the disorder or disease is responsive to modulation of the AMPA receptor complex of the central nervous system.

30. (original) The method according to claim 28, wherein the disorder or disease is selected from memory and learning disorders, psychotic disorder, sexual dysfunction, intellectual impairment disorders, schizophrenia, depression, autism, Alzheimer's disease, learning deficit, attention deficit, memory loss, and senile dementia; or from a disorder or disease resulting from trauma, stroke, epilepsy, Alzheimer's disease, neurotoxic agents, aging, neurodegenerative disorder, alcohol intoxication, substance abuse, cardiac bypass surgery, and cerebral ischemia.

31. (new) The compound of claim 1, wherein X is SO<sub>2</sub> and Y is N(R<sup>4</sup>).

32. (new) A method of treating a disorder or disease of a living animal body, including a human, which disorder or disease is responsive to modulation of the AMPA receptor complex of the central nervous system, which method comprises administration of a therapeutically effective amount of a chemical compound according to claim 31.

33. (new) The compound of claim 22, which is  
3-cyclopentyl-6-methyl-7-piperidinosulfonyl-1,2,3,4-tetrahydro-1,2,4-benzothiadiazine-1,1-dioxide.